Division of Information Technology Services
Technical Bulletin

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MVS/ESA SP V4.1 JCL Enhancements

JCLLIB and INCLUDE JCL Statements

JCLLIB replaces PROCLIB

The purpose of JCLLIB is to identify library names for procedures/INCLUDE-groups.

JCLLIB replaces PROCLIB used in the previous release of MVS/ESA. An exit is in place until January 1992 to allow customers time to complete the JCL change.

Libraries are searched in the order specified on the JCLLIB statement for

- Procedures named on any EXEC statements
- Groups of JCL statements (INCLUDE groups) named on any INCLUDE statements

Following is an example of how to modify your JCL with the JCLLIB statement

```
//PROCLIB   DD DSN=PROCLIB1.DATASET
//          DD DSN=PROCLIB2.DATASET
//          DD DSN=PROCLIB3.DATASET

//MYLIB     JCLLIB  DD ORDER=(PROCLIB1.DATASET,PROCLIB2.DATASET,
//                  PROCLIB3.DATASET)
```

Information on software to scan and replace PDS data will be available on the I.T.S. Bulletin Board (Office Vision Electronic Mail) mid-June or early-July.

More infromation on JCLLIB in JCL Reference (GC28-1654) Chapter 18.

The INCLUDE statement identifies the PDS member name that contains a set of JCL statements (called an INCLUDE group) to be imbedded in the JCL stream

An INCLUDE statement is coded as follows:

```
//TESTJOB    JOB ...
//LIBSRCH    JCLLIB ORDER=DPXXX.FILESET.JCL
//STEP1      EXEC  PGM=PROGRAM1
//FISLESET   INCLUDE MEMBER=ABFILES
//STEP2      EXEC  PGM=PROGRAM2
```

An INCLUDE statement functions as follows

```
//TESTJOB    JOB ...
//LIBSRCH    JCLLIB ORDER=DPXXX.FILESET.JCL
//STEP1      EXEC  PGM=PROGRAM1
//*
//* THIS INCLUDE GROUP IS CATALOGED AS DPXXX.FILESET.JCL.
//* IT REPLACES 'FILESET INCLUDE MEMEBER=ABFILES' JCL STATEMENT ABOVE.
//AFILES     DD DSN=FILEA1.NAME,DISP=SHR
//             DD DSN=FILEA2.NAME,DISP=SHR
//BFILES     DD DSN=FILEB1.NAME,DISP=(OLD,KEEP),UNIT=TAPE,VOL=SER=123456
//             DD DSN=FILEB2.NAME,DISP=(OLD,KEEP),UNIT=TAPE,VOL=SER=234567
//NEWFILE    DD DSN=NEWFILEX.NAME,DISP=(,KEEP,DELETE),UNIT=SYSDA,
//                    SPACE=(TRK,(1,1),RLSE)
//* END OF INCLUDE GROUP DPXXX.FILESET.JCL(ABFILES)
//*
//STEP2              EXEC PGM=PROGRAM2
```

More information on INCLUDE in JCL Reference (GC28-1654) Chapter 17.

IF/THEN/ELSE/ENDIF JCL Statement

Conditionally execute job steps with IF/THEN/ELSE/ENDIF construct based on

- C Value of return code
- C If ABEND occurred on any previous job step
- C If ABEND did not occur on any previous job step
- C Value of a system or user=defined ABEND completion code
- C If a previous step executed
- C If a previous step did not execute

Syntac of the IF/THEN/ELSE/ENDIF statements

```
//name       IF relational-expression THEN       comments
      C       action when relation-expression is true

//name       ELSE                                comments
      C       action when relation-expression is false
```

```
//name        ENDIF                              comments
```

More information on IF/THEN/ELSE/ENDIF in JCL Reference (GC28-1654) Chapter 16.

OUTPUT JCL Statement

OUTPUT statements add functionality to output processing

The OUTPUT JCL statement is used to specify processing options for a sysout dataset. It must be located before any sysout DD statement that references it.

Syntac of the OUTPUT JCL statement

```
//name OUTPUT keyword parameter=          comments
```

New keyword parameters ADDRESS, BUILDING, DEPT, NAME, ROOM, TITLE assist with sysout distribution by printing specific information on separator pages.

New parameter OUTDISP indicates disposition of sysout data sets, based on whether the job completes successfully (OUTDISP=(normal,abnormal)).

WRITE—Print and purge after completion
HOLD—Hold until the user or operator releases print. Releasing changes disposition to WRITE
KEEP—Print and re-queue output as LEAVE
LEAVE—Do not schedule for output processing until released. Releasing changes disposition to Keep. If not released, the system holds until the user or operator purges.
PURGE—Purge output without printing

Other parameters and more information on OUTPUT in JCL Reference (GC28-1654) Chapter 21.

SET JCL Statement

SET statement assigns symbolic parameter values

The purpose of the SET statement is to

- Define/assign initial values to symbolic parameters
- Change or nullify previously defined values of symbolic parameters

Syntax of the SET statement

```
//name SET symbolic-parameter=value    comments
```

More information on SET in JCL Reference (GC28-1654) Chapter 24.

PEND JCL Statement

PEND statement is now allowed in procedures

//PEND is allowed to mark the end of a cataloged procedure, but is not required. More information on PEND in JCL Reference (GC28-1654) Chapter 22.

Miscellaneous JCL Enhancements

Symbolics can contain special characters

- See "Assigning a Value to a Symbolic Parameter" on Page 5-16 and "Coding Symbolic Parameters" on Page 5-14 of JCL Reference (GC28-1654).

SEGMENT DD sysout statement parameter

- Allows part of a job's output to print while job is still executing or allow multiple segments to a job's output to print simultaneously on multiple printers. SEGMENT is on Page 11-149 of the JCL Reference (GC28-1654).

SPIN DD sysout statement parameter allows output to print

- Upon unallocation
- Or at the end of the job
- SPIN is on Page 11-157 of the JCL Reference (GC28-1654)

Additional info available to print on the output banner page

- Job info—controlled by JES2 and JCL OUTPUT DD statement
- Output disbursement info—controlled by JCL OUTPUT DD statement
- Printer info—controlled by JES2
- See example attached to Technical Bulletin 116
- OUTPUT DD statement is in Chapter 21 of the JCL Reference (GS28-1654).

NOTIFY keyword on OUTPUT JCL statement

- Print complete notification
- Available on FSS-Mode (Functional Sub-System) printers only. These are laser printers driven by PSF(Printer Support Facility).

MVS/ESA SP V4.1 SDSF Enhancements: SDSF Release 3.1 Changes

Additional overtypeable fields/action characters on Held Output Queue panel

- DEST command improvement
- Output descriptor displays

Functional Changes

Improvements to Dialog Tag Language (DTL) and Conversion Utility

- Extensions to Dialog Tag Language (DTL) support additonal tags and tag

attributes.

Enhanced DTL Compatibility with OS/2 Version 1.2 Dialog Manager

- All DTL supported by the OS/2 Dialog Manager is checked for syntax
- A warning message is issued for all DTL not supported by ISPF
- The ISPF DTL Guide and Reference has been significantly improved.
  - A guide to using DTL has been added
  - Tags have additional wording to better define formatting
- ISPF run-time support modified for Version 3.2 DTL enhancements.
- An involcation panel starts the DTL compiler.

Additonal Help Support

- Field-level help on action bar/pull-down choices and list columns
- Extended help after field-level help and message help added
- A help panel for keys help can be defined for application users, with a brief description of each key defined for a panel

MVS/ESA SP V4.1 Enhancements: ISPF/PDF Version 3 Release 2 for MVS

Functional Changes

- Partitioned Data Set Extended (PDSE) support available
- C/370 Language Support, including language models and an interface into the foreground and batch compile dialogs supplied with the C/370 compiler
- Workstation Platform for OS/2 provided which interfaces into SCLM